

Frost Shock

by Arya Akhavan (October 2012)

Angles for R.I. = 1.620

85 + 6 girdles = 91 facets

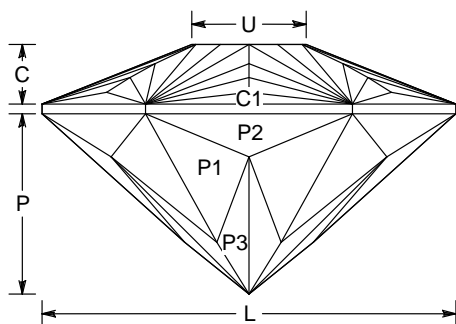
6-fold, mirror-image symmetry

96 index

$L/W = 1.155$ $T/W = 0.342$ $U/W = 0.319$

$P/W = 0.503$ $C/W = 0.167$

$Vol./W^3 = 0.263$



PAVILION

P1	43.03°	04-12-20-28-36-44-52-60-68-76-84-92	Cut to centerpoint.
G1	90.00°	96-16-32-48-64-80	Set stone size.
P2	65.02°	96-16-32-48-64-80	Meet P1, G1 (level girdle)
P3	41.00°	02-14-18-30-34-46-50-62-66-78-82-94	Meet P1, P2

CROWN

C1	38.47°	96-16-32-48-64-80	Set girdle width.
C2	21.90°	06-10-22-26-38-42-54-58-70-74-86-90	Meet G1, C1
C3	23.00°	04-12-20-28-36-44-52-60-68-76-84-92	Meet G1, C1, C2
C4	25.76°	02-14-18-30-34-46-50-62-66-78-82-94	Meet G1, C1, C2, C3
C5	28.67°	01-15-17-31-33-47-49-63-65-79-81-95	Meet G1, C1, C2, C3, C4
T	0.00°	Table	Meet C2, C3

This pattern is a variant on Lesson 7 from Faceting 101. I figured I might as well take the "Princess-y" crown to an extreme and see what happened, and it turned out surprisingly good! The C2-C5 facets are very easy to overcut, though. Can be cut in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes.

Suggested size = 7-10 mm

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